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DEPARTMENT OF THE ARMY

Procurement Programs



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Committee Staff Procurement Backup Book

FY 1996 / 1997 BIENNIAL BUDGET ESTIMATE

OTHER PROCUREMENT, ARMY

ACTIVITY 1, TACTICAL AND SUPPORT VEHICLES

APPROPRIATION

Date February 1995

Reports Control Symbol
DD-COMP (AR) 1092

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6. AUTHOR(S)					
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OTHER PROCUREMENT, ARMY

APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of vehicles, including tactical, support and nontracked combat vehicles; communications and electronics equipment; other support equipment; initial spare parts, ordnance, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes; \$2,256,601,000, to remain available for obligation until September 30, 1998.

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OTHER PROCUREMENT, ARMY

SECTION 3

Comparison of Program Requirements and Financing

Comparison of FY1995 program requirements as reflected in the FY1995 President's Budget with FY1995 program requirements as shown in the FY1996 President's Budget.

Comparison of FY1995 financing as reflected in the FY1995 President's Budget with FY1995 financing as shown in the FY1996 President's Budget.

Comparison of FY1994 program requirements as reflected in the FY1995 President's Budget with FY1994 program requirements as shown in the FY1996 President's Budget.

Comparison of FY1994 financing as reflected in the FY1995 President's Budget with FY1994 financing as shown in the FY1996 President's Budget.

**COMPARISON OF FY 1995 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1995 PRESIDENT'S BUDGET
WITH THE FY 1995 PROGRAM REQUIREMENTS AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)**

Appropriation Other Procurement, Army	FY 1995		Increase or (Decrease)
	Requirements Per President's Budget	Requirements Per FY 1996 President's Budget	
Activity 1 - Tactical and Support Vehicles	559,579	555,669	(3,910)
Activity 2 - Communications and Electronics Equipment	1,554,699	1,584,270	29,571
Activity 3 - Other Support Equipment	575,955	528,890	(47,065)
	2,690,233	2,668,829	(21,404)

EXPLANATION BY ACTIVITY

Activity 1 - Tactical And Support Vehicles - the net decrease (\$-3,910) resulted from Congressionally approved and below threshold reprogramming.

Activity 2 - Communications and Electronics Equipment - the net increase (\$+29,571) resulted from Congressionally approved and below threshold reprogramming.

Activity 3 - Other Support Equipment - the net decrease (\$-47,065) resulted from Congressionally approved and below threshold reprogramming.

**COMPARISON OF FY 1995 FINANCING
AS REFLECTED IN THE FY 1995 PRESIDENT'S BUDGET
WITH FY 1995 FINANCING AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
(In Thousands of Dollars)**

Appropriation Other Procurement, Army	FY 1995		FY 1996	
	Financing Per FY 1995 President's Budget	Financing Per FY 1995 President's Budget	Financing Per FY 1996 President's Budget	Financing Per FY 1996 President's Budget
Program Requirements (Total)	2,866,833		2,875,029	
Program Requirements (Service Account)	2,690,233		2,668,829	
Program Requirements (Reimbursable)	176,600		206,200	
Less:				
Anticipated Reimbursements	(176,600)		(206,200)	
Unobligated balance available to finance new budget plans			(5,100)	
Unobligated balance transferred to other accounts			5,100	
BUDGET AUTHORITY				
Appropriation	2,690,233		2,668,829	

**COMPARISON OF FY 1994 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1995 PRESIDENT'S BUDGET
WITH THE FY1994 PROGRAM REQUIREMENTS AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)**

Appropriation Other Procurement	FY 1994		FY 1994		Increase or Decrease)
	Requirements Per President's Budget	FY 1995	Requirements Per President's Budget	FY 1996	
Activity 1 - Tactical and Support Vehicles	743,588		751,885		8,297
Activity 2 - Communications and Electronics Equipment	1,701,354		1,710,414		9,060
Activity 3 - Other Support Equipment	443,624		433,156		(10,468)
	2,888,566		2,895,455		6,889

EXPLANATION BY ACTIVITY

Activity 1 - Tactical and Support Vehicles - The net increase (\$+8,297) resulted from Congressionally approved and below threshold reprogramming.

Activity 2 - Communications and Electronics Equipment - The net increase (\$+9,060) resulted from Congressionally approved and below threshold reprogramming.

Activity 3 - Other Support Equipment - The net decrease (\$-10,468) resulted from Congressionally approved threshold reprogramming.

**COMPARISON OF FY 1994 FINANCING
AS REFLECTED IN THE FY1995 PRESIDENT'S BUDGET
WITH THE FY 1994 FINANCING AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)**

Appropriation	FY 1994		FY 1996	
	Financing Per President's Budget	Financing Per President's Budget	Financing Per President's Budget	Financing Per President's Budget
Other Procurement, Army				
Program Requirements (Total)	3,191,166		2,983,409	
Program Requirements (Service Account)	2,888,566		2,895,455	
Program Requirements (Reimbursable)	302,600		87,954	
Less:				
Anticipated Reimbursements	(302,600)		(87,954)	
Add:				
Unobligated balance available to finance new budget plans			(4,000)	
Unobligated balances transferred to other accounts			(400)	
Reprogramming From/To Prior Year Budget Plans			(6,683)	
Unobligated Balances available to finance subsequent year budget plans			5,100	
Unobligated balance expiring			7,083	
BUDGET AUTHORITY				
Appropriation	2,888,566		2,984,509	

*****UNCLASSIFIED*****
DEPARTMENT OF THE ARMY
FY 96 PROCUREMENT PROGRAM
FY96 PRESIDENT BUDGET

EXHIBIT P-1
DATE: 133951 24 JAN 95

APPROPRIATION: OTHER PROCUREMENT, ARMY

ACTIVITY: 1. TACTICAL AND SUPPORT VEHICLES

LINE NO.	ITEM DESCRIPTION	ID	(DOLS)				(THOUSANDS OF DOLLARS)				FY 97 QTY	FY 97 COST
			FY 96 UNIT COST	FY 96 QTY	FY 96 COST	FY 96 QTY	FY 96 COST	FY 96 QTY	FY 96 COST			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
TACTICAL VEHICLES												
1	TACTICAL TRAILERS/DOLLY SETS (DA0100)	A			14420		35371		13803		14106	
2	SEMITRAILER FB BB/CONT TRANS 22 1/2 T (D01500)	A								35	1987	
3	SEMITRAILER, TANK, 5000G (D02300)	A				7	741					
4	SEMITRAILER VAN CGO SUPPLY 12T 4WHL M129A2 (D04800)	A	54810	10	1562	101	4816	58	3179	198	8642	
5	H1 MOB MULTI-PURP WILD VEH (M1MNV)(MYP) (D15400)		105659	5836	246764	1325	117673	546	57690	226	52651	
6	FAMILY OF MEDIUM TACTICAL VEH (MYP) (D15500)		39692000	219	28985	3461	386035		39692			
7	HEAVY EQUIPMENT TRANSPORTER SYS (DV0012)										89402	
8	FAMILY OF HEAVY TACTICAL VEHICLES (MYP) (DA0500)			932	402708		16341		596		80615	
9	ARMORED SECURITY VEHICLES (COMBAT SPT) TAC (D02800)									21	9609	
10	MEDIUM TRUCK EXTENDED SVC PGM (ESP) (PREV S (DV0008)			241	17615							
11	MODIFICATION OF IN SVC EQUIP (DA0924)				25068		11732		2802		2806	
12	ITEMS LESS THAN \$2.0M (TAC VEH) (DL5110)				1394		440		200		201	
	SUB-ACTIVITY TOTAL				738516		573149		117962		260019	
NON-TACTICAL VEHICLES												
13	PASSENGER CARRYING VEHICLES (D23000)			16	288			41	994			
14	GENERAL PURPOSE VEHICLES (DV0013)				2708				993			

*****UNCLASSIFIED*****
3

EXHIBIT P-1
DATE: 133951 24 JAN 95

ACTIVITY: 1. TACTICAL AND SUPPORT VEHICLES

(THOUSANDS OF DOLLARS)

4
*****UNCLASSIFIED*****

PROCUREMENT PROGRAM INSTALLATION SUMMARY
(TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94 & Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TC	TOTAL
HMMWV	3.6	6.0	2.3	1.4	3.2	2.2				18.7
TRUCK, 5T (M939/M939A1)	1.3									1.3
SUSV	0	0.3	0.1							0.4
TOTAL FOR BA 1	4.9	6.3	2.4	1.4	3.2	2.2	0	0		20.4

Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET						DATE: February 1995
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles			P-1 Item Nomenclature: Tactical Trailers / Dolly Sets (DA0100)				
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY							
COST (MILLIONS)	14.4	35.4	13.8	14.1	6.7	13.1	9.2
<p>DESCRIPTION: This line is a roll of various Tactical Trailers and Dolly Sets which are used for such missions as transporting generators, shelters, drinking water, ammunition, and general cargo. The prime movers for these trailers range from the CUCV to the 5 Ton Truck.</p> <p>JUSTIFICATION: Required to support the fielding of major systems and to fill some Trailer and Dolly Set shortages in troop units.</p>							

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles			B. Weapon Model/Series Tactical Trailers/Dolly Sets (DA0100)			C. Manufacturer/Location		D. DATE	
Weapon System Cost Elements	IDENT CODE	FY 94 Unit Cost	Total Cost	FY 95 Unit Cost	QTY	Total Cost	FY 96 Unit Cost	QTY	FY 97 Unit Cost	QTY	February 1995 Total Cost
Trailer, GP, 5Ton, M1061 (D04700)	A	25	68 1,666	13	390 5,174						
High Mobility Trailer (D06700)	A	8	320 2,472	7	1725 12,514	1561 11,421		8		1167 8,741	
Dolly Set, Trans, Shelter, 7 1/2 Ton, M1022 (D00500)	A			29	260 7,592	64 2,382		34		161 5,395	
Trailer Tank Water 400G 1 1/2Ton, 2W M149A2 (D06800)	A	37	272 10,282	11	*883 10,091						
TOTAL PROGRAM COST			14,138		25,301	13,897					14,200
*P-1 Quantities Not Updated											

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Reports Control Symbol DD-COMP (AR 1092)	BUDGET ITEM JUSTIFICATION SHEET						DATE
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles		P-1 Item Nomenclature: Trailer, GP, 5 Ton, M1061 (D04700)					
	FY94	FY95	FY96	FY97	FY98	FY99	FY01
QUANTITY	68	390				297	
COST (MILLIONS)	1.7	5.2				5.0	

DESCRIPTION: The M1061A1 is a 5 Ton, tandem axle, 4-wheel, flatbed trailer. This trailer is designed to carry Fuel Pods, Laundry Units, and large generators. It is used by the Air Force and Interchange customers. The trailer is towed by a 5 ton truck, uses an air over hydraulic brake system which receives air pressure from the towing vehicle. It is equipped with manually operated leveling jacks on the four corners of the trailer that fold to a stowed position and has an under chassis mounted spare tire. The trailer's electrical system consists of an intervehicular cable, wiring harness, and two composite light assemblies. Power is supplied by the towing vehicle.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.				B. WEAPON MODEL		C. MANUFACTURER NAME		D. Date	
	Other Procurement, Army 1- Tactical and Support Vehicles				Trailer, GP, 5 Ton M1061 (D04700)		PLANT CITY/STATE (see P5A)		February 1995	
WEAPON SYSTEM COST ELEMENTS	Ident. Code	94		Qty	95		96		97	
		Unit Cost	Total Cost		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1. Vehicle	A	11	68 790	390 4,530	12					
2. Engineering Support -In House -Contractor Spt			137 50	136 50						
3. Quality Assurance (TACOM)			83	43						
4. Testing (TECOM)			242	75						
5. System Technical Support (STS)			364	340						
TOTAL PROGRAM COST		25	1,666	5,174	13					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles				C. P-1 ITEM NOMENCLATURE Trailer, GP, 5 Ton, M1061 (D04700)							
COST ELEMENT FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY 92	Utility Tool & Body, Clintonville, WI Utility Tool & Body, Clintonville, WI	Option Option	TACOM TACOM	Jan, 92 Aug, 92	Aug, 92 Dec, 93	44 13	9,776 9,776	Yes Yes	No No		
FY 93	Utility Tool & Body, Clintonville, WI Utility Tool & Body, Clintonville, WI	Option Option	TACOM TACOM	Dec, 92 Jan, 93	May, 94 Dec, 94	305 61	9,776 9,776	Yes Yes	No No		
FY 94	To Be Selected	1* CFFP/1	TACOM	Mar, 95	Nov, 95	68	2* 11,616	Yes	No		
FY 95	To Be Selected	Option	TACOM	Mar, 95	Nov, 95	390	11,616	Yes	No		
D. REMARKS											
1* Small Business Setaside, 3 year Requirements Contract.											
2* FY94 price is inflated 1989 cost.											

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Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles	P-1 Item Nomenclature: High Mobility Trailer (D06700)						
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY	320	1,725	1,561	1,167	695	923	1,048
COST (MILLIONS)	\$2.5	\$12.5	\$11.4	\$8.7	\$6.7	\$8.2	\$9.2
							FY01 992 \$8.8

DESCRIPTION - The High Mobility Trailer (HMT) is a family of high mobility companion trailers for the High Mobility Multipurpose Wheeled Vehicle (HMMWV). The HMT will be compatible with both the light (Group I/II) and heavy (Group III) HMMWV variants. This will require a HMT family of trailers (light, heavy and heavy chassis) in order to make full use of the HMMWV's towing capabilities.

JUSTIFICATION - The HMT is required to improve off-road mobility and increase payload over the present M101 series 3/4-ton trailers. It will be used in support of communications, intelligence systems and Tactical Quiet Generators. The HMT also offers stability and mobility lacking in the current M101/HMMWV combination because the HMT wheels will have the same track width as the HMMWV.

P-1 SHOPPING LIST ITEM NO.: 1

PAGE NO.: 7 of 22

Exhibit P-40

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET		B. WEAPON MODEL:		C. MANUFACTURER NAME:				D. Date	
	ACTIVITY: Other Procurement, Army 1-Tactical and Support Vehicles		High Mobility Trailer (D06700)		Electrospace Systems, Inc PLANT CITY/STATE: Richardson, TX (see P5A)				February 1995	
WEAPON SYSTEM COST ELEMENTS	Ident. Code	94		95		96		97		Qty Total Cost
		Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	Unit Cost	Qty Total Cost	
1. Vehicle	A	7	320 2,129	7	1,725 11,574	7	1,572 10,548	7	1,188 7,972	
2. Engineering Changes			64		347		316		239	
3. Testing Contractor Government			279 0 (279)		191 (191)		200 (200)		212 (212)	
4. Engineering Support Gov't In-house--Engineering Gov't In-house--Quality Assurance			0 0 0		402 (202) (200)		357 (178) (179)		318 (159) (159)	
TOTAL PROGRAM COST			2,472		12,514		11,421		8,741	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles		C. P-1 ITEM NOMENCLATURE High Mobility Trailer (D06700)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY93	Electrospace Systems, Inc. Richardson, TX	CM-5 (3)	TACOM	Dec 94	Aug 95	97	\$6,983	Yes	No	
FY94	Electrospace Systems, Inc.	CM-5 (3)	TACOM	Dec 94	Sep 95	320	\$6,653	Yes	No	
FY95	Electrospace Systems, Inc.	CM-5 (3)	TACOM	Dec 94	Oct 95	1,725	\$6,710	Yes	No	
FY96	Electrospace Systems, Inc.	CM-5 (4)	TACOM	Nov 95	Jun 96	1,572	\$6,710	Yes	No	
FY97	Electrospace Systems, Inc.	CM-5 (5)	TACOM	Nov 96	Jun 97	1,188	\$6,710	Yes	No	
D. REMARKS										

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PRODUCTION SCHEDULE (EXHIBIT P-21)										DATE		February 1995		REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1082																																																																																															
APPROPRIATION/BUDGET ACTIVITY OPA/ACTIVITY 1 - TACTICAL AND SUPPORT VEHICLES										P-1 ITEM NOMENCLATURE HIGH MOBILITY TRALER (HMT) (D08700)																																																																																																			
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Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET										DATE: February 1995
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles		P-1 Item Nomenclature: Dolly Set, Trans Shelter, 7 1/2 Ton, M1022 (DO0500)									
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01			
QUANTITY		260	64	161							
COST (MILLIONS)		7.6	2.4	5.4							

DESCRIPTION: The Dolly Set consists of two sections, a front unit and a rear unit, each consisting of an axle, frame, and lift mechanism with the front unit having a tow bar. The dolly set is required to provide ground mobility for the Army's family of rigid wall International Standard Organization (ISO) configured shelters and containers up to 15,000 lbs. The Dolly Set must be able to secure and move the shelter when pulled by the 5 Ton Cargo Truck. Both units of a Dolly Set may also be coupled and towed empty or in tandem with a second empty set.

JUSTIFICATION: Joint procurement for the Navy, USMC, and Army. This is required to support the fielding of the Deployable Medical System (DEPMEDS), Aviation Ground Support Equipment, Explosives Ordnance Disposal, and Guardrail. These systems are currently not transportable without Dolly Sets.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles		B. Weapon Model/Series M1022 7 1/2 Ton Dolly Set, Trans Shelter (D00500) Aston, PA 19104		C. Manufacturer/Location Engineered Systems		D. DATE February 1995	
Weapon System Cost Elements	IDENT CODE	FY 94 Unit Cost	FY 94 Total Cost	FY 95 Unit Cost	FY 95 Total Cost	FY 96 Unit Cost	FY 96 Total Cost	FY 97 Unit Cost	FY 97 Total Cost
1. Vehicle	A				260		64		161
2. Economic Price Adjustment			27		7,128	28	1,798	29	4,637
2. Engineering Support In House					42		9		23
					75		279		392
4. Quality Assurance (TACOM)					105		46		38
5. Testing (TECOM)					35		80		105
6. System Technical Support					207		170		170
TOTAL PROGRAM COST					7,592		2,382		5,365

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BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-5A)										A: DATE	February 1995
Appropriation/ Budget Activity Procurement OPA/ACT 1 - Tactical and Support Vehicles					P-1 ITEM NOMENCLATURE Dolly Set, Trans Shelter, 7 1/2 Ton, M1022 (D00500)						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVER	QTY	UNIT COST	SPECS AVAILABLE NOW	SPECS REV REQD	IF YES, WHEN AVAILABLE	
FY92	Engineered Systems Aston, PA	CFFP/EP	TACOM	Jun 93	Jul 95	72	27,708	YES	NO		
FY95	Engineered Systems Aston, PA	Option	TACOM	Apr 95	Dec 95	260	27,415	YES	NO		
FY96	SAME	Option	TACOM	Apr 96	Dec 96	64	28,094	YES	NO		
FY97	SAME	Option	TACOM	Apr 97	Dec 97	161	28,801	YES	NO		
D. REMARKS: Five Year Requirements Contract, EPA applies to last three years of the contract.											

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APPROPRIATION/BUDGET ACTIVITY										PRODUCTION SCHEDULE (EXHIBIT P-21)										REQUIREMENTS CONTROL SYMBOL									
OPA 1 Tactical and Support Vehicles										P-1 ITEM NOMENCLATURE										DD-COMP (AR) 1092									
FACILITY U-M S										Dolly Set, Train Shelter, 7 1/2 Ton, M/1022 (D00300)										DATE February 1995									
FACILITY NO										FISCAL YEAR 97										FISCAL YEAR 98									
PROGRAM QUANTITY										CALENDAR YEAR 97										CALENDAR YEAR 98									
FY 93 FY 94 FY 95 FY 96 FY 97										1996										1997									
ACCE BAL										1996										1997									
PRIOR TO 1996										1996										1997									
DUE AS OF 1 OCT 1996										1996										1997									
EA A										12										12									
EA A										92										92									
EA A										72										72									
EA N										18										18									
EA N										3										3									
EA AOC(1)										5										5									
EA AOC(1)										1										1									
EA FMS										11										11									
EA A										215										215									
EA A										64										64									
EA AOC(1)										196										196									
EA A										161										161									
EA AOC(1)										28										28									
TOTAL MONTHLY PRODUCTION										457										457									

FACILITY NO		MANUFACTURER'S NAME & LOCATION		PRODUCTION RATES		MONTHS TO REACH MAX AFTER D DAY		ADMIN LEAD TIME		PRODUCTION		TOTAL AFTER 1 OCT		REMARKS:	
				MINIMUM SUST		MAXIMUM		PRIOR TO 1 OCT		AFTER 1 OCT		TOTAL		(1) USAF, USMC, AND OTHER CUSTOMER FUNDED REQUIREMENTS.	
1	ESCO			1	25	80	10	0	8	10	18				
								0	6	8	14				

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE: February 1995	
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles		P-1 Item Nomenclature: Trailer, Tank, Water 400G, 1 1/2 T, 2W, M149A2 (D06800)							
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		272	580						
COST (MILLIONS)		10.3	10.1						
<p>DESCRIPTION: The M149A2 is a two-wheeled, 1 1/2 ton trailer which is used to transport 400 gallons of drinking water over highways and cross-country terrain. It is capable of fording hard bottomed water crossings. The trailer has an insulated stainless steel tank, a 24 volt electrical system, air/hydraulic brakes which receive air pressure from the towing vehicles, an adjustable caster assembly to support the front of the trailer when not connected to the towing vehicle and manually operated parking brakes. The trailer is equipped with a tank valve, a set of faucets, and a self-draining faucet in the rear. One of the faucets is equipped with a quick disconnect coupling to allow connection to field kitchens. The prime mover is the 2 1/2 ton truck. The 5 ton truck may also be used as a towing vehicle. During ODS, M149A2 mobility and stability deficiencies surfaced. The M149A2 wheels became mired in the sand causing excessive load on the drawbar reducing the prime movers mobility. The ECP for enhanced mobility is a walking beam suspension with four tires/wheels per side of the trailer. This configuration improves the mobility and stability of the water trailer and reduces drawbar load to levels comparable to highway figures. The larger tire footprints reduces ground pressure to level equal to or less than that of the prime mover.</p>									

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles		B. Weapon Model/Series Trailer, Tank, water 1 1/2 T, M149 (D06800)		C. Manufacturer/Location Turtle Mnt Mfg. Belcourt ND		D. DATE February 1995	
Weapon System Cost Elements	IDENT CODE	FY 94 Unit Cost	QTY Total Cost	FY 95 Unit Cost	Total Cost	FY 96 Unit Cost	Total Cost	FY 97 Unit Cost	Total Cost
1. Vehicle		17	272 4,647	10	883 8,954				
2. Engineering Change Proposal(ECP (Mobility Improvement)			3,933						
3. Engineering Support (in-house)			452		450				
4. Quality Assurance (TIACOM)			140		147				
5. Testing (TECOM)			430		200				
6. System Technical Support			680		340				
TOTAL PROGRAM COST			10,282		10,091				

P-1 NOT UPDATED

BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-5A)										A: DATE	February 1995
Appropriation/ Budget Activity Procurement OPA/ACT 1 - Tactical and Support Vehicles					P-1 ITEM NOMENCLATURE Trailer, Tank, Water 1 1/2 T, M149 (D06800)						
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTE BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	SPECS REV REQD	IF YES, WHEN AVAILABLE	
FY93	Turtle Mnt. Mfg Co. P.O. Box 770, Hwy 5 West Belcourt, ND 58316	Option	TACOM	JAN 93	SEP 94	1,500	9,286	Yes	No		
	Turtle Mnt. Mfg Co.	Option	TACOM	APR 93	JUL 95	1,178	9,286	Yes	No		
	Turtle Mnt. Mfg Co.	Option	TACOM	JAN 93	AUG 94	50	9,286	Yes	No		
	Turtle Mnt. Mfg Co.	Option	TACOM	SEP 93	NOV 95	10	9,286	Yes	No		
FY94	To be selected	FFP	TACOM	JUN 95	MAR 96	272	17,084	Yes	Yes		
FY95	To be selected	FFP	TACOM	FEB 96	NOV 96	883	10,140	Yes	No		
REMARKS: Pending approval of the Justification and Approval (J&A) to go sole source, 272 M149A2 enhanced mobility trailers will be awarded. in JUN95. In addition, 536 M149A2s, currently on contract will have the mobility enhancement ECP cut into production. Award date of ECP is APR95.											

Report Control	BUDGET ITEM JUSTIFICATION SHEET					Date: February 1995
Symbol DD-COMP (AR) 1092						
Appropriation/ Budget Activity Procurement	P-1 ITEM NOMENCLATURE					
OPA/ACT 1 - Tactical and Support Vehicles.	Semitrailer FB BB/Cont Trans 22 1/2 T, M871A2 (D01500)					
	FY94	FY95	FY96	FY97	FY98	FY99
QUANTITY				35	52	238
COST (MILLIONS)				2.0	2.0	6.0
						241
						239
						8.0

DESCRIPTION: The M871A2 is a 22 1/2 ton Semitrailer, Tactical, dual purpose, breakbulk/container transporter. The semitrailer will be used within the military logistical support system within CONUS and OCONUS theaters to transport 20' International Standard Containers on line haul tactical missions and as the primary means of distributing containers and bulk cargo. It will be primarily employed with military standard 5 Ton tractors in Corps and Division areas for use over primary, secondary, and unimproved secondary roads.

JUSTIFICATION: The M871A2 semitrailer is used in Corps and Division Transportation Units within the military logistics system for transport of International Standard Organization (ISO) Containers, breakbulk and general cargo. The M871A2 is the primary transporter of the 3,000 gallon Reverse Osmosis Water Purification Units (ROWPU). There is an AAO shortfall of 4,307 units at this time. The M871A2 is employed with military standard 5 Ton tractors for use over primary, secondary and unimproved secondary roads.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriation/Budget Activity OPA/ACT-1 - Tactical and Support Vehicles		B. Weapon Model/Series Semitrailer FB BB/Cont Trans 22 1/2 ton, M871A2 (D01500		C. Manufacturer/Location To Be Selected		D. DATE February 1995	
Weapon System Cost Elements	IDENT CODE	FY 94		FY 95		FY 96		FY 97	
		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1. Vehicle	A								35
2. Loading Charges								19	661
3. FET									8
4. Engineering Government Contract									80
5. Quality Assurance									202
6. Testing (TECOM)									100
7. System Technical Support									101
TOTAL PROGRAM COST									237
									595
									1,984

BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-5A)										A: DATE February 1995	
Appropriation/ Budget Activity Procurement OPA/ACT 1 - Tactical and Support Vehicles										P-1 ITEM NOMENCLATURE Semitrailer FB BB/Cont Trans 22 1/2 T, M871A2 (D01500)	
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	SPECS REV REQD	IF YES, WHEN AVAILABLE	
FY93	Dynaweld	Option	TACOM	July 93	Jan 94	108	17,114	Yes	No		
FY97	To Be Selected	CFFP	TACOM	Jan 97	Sep 97	35	18,886	Yes	No		
D. REMARKS:											

APPROPRIATION/BUDGET ACTIVITY

P-1 ITEM NOMENCLATURE

Semitrailer FB BB/Cont Trans 22 1/2 T, M871A2 (D01500)

FISCAL YEAR 99

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[illegible]

FACILITY NO	MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY
		MINIMUM SUST	185	MAXIMUM	
1	DYNARELD	30	55	110	10
2	To Be Selected	4	30	60	10

	ADMIN LEAD TIME		PRODUCTION	TOTAL AFTER 1 OCT
	PRIOR TO 1 OCT	AFTER 1 OCT		
INITIAL	0	3	8	11
REORDER	0	3	6	9

REMARKS:

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Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995	
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles		P-1 Item Nomenclature: Semitrailer, Van, Cargo, Supply, 12T, 4 WHL M129A2C (D04800)						
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	10	101	58	198	94	156	128	125
COST (MILLIONS)	1.6	4.8	3.2	8.6	4.6	7.3	7.0	7.0
<p>DESCRIPTION: A 12 Ton, 35 ft. four wheel multipurpose Tactical Transport Semitrailer Van. The van body will be of aluminum construction, watertight and airtight. Aluminum body is a metal structure with steel under-carriage frame. Van body will be provided with urethane foam in place of insulation. The electrical system will have 12-24 volt D.C. capacity compatible with tactical and commercial wheeled tractors. Maximum cross-country speed at rated payload. The Semitrailer Van will meet current transportability standards. Prime movers are military 5 Ton Tractors.</p> <p>JUSTIFICATION: The current family of M129 Semitrailer Van configurations is used by various types of support units engaging in the storage, transportation and issue of Military supplies. The Van will house sophisticated electrical equipment (radio and computerized) for Command Post communications; spare parts, and maintenance tool shop for field repairs. The user has a 100% mobility requirement to store, transport and resupply Prescribed Load List/Authorized Support List (PLL/ASL) Class IX items and 80% of the repair parts to the forward elements in a relatively short period of time (20 minutes). The remaining 20% of the repair parts will be in place within a 3-4 hour timeframe. The current fielded systems do not meet the user unique requirements for the transportation and issuance of repair parts. The vehicle will have built-in flexibility to permanently secure modular storage and drawer systems for the transportation and issue of shop inventories and military supplies.</p>								

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. Other Procurement, Army 1- Tactical and Support Vehicles		B. WEAPON MODEL Semitrailer, Van, Cargo, Supply, 12T, 4 WWhl M129A2C (D04800)		C. MANUFACTURER NAME PLANT CITY/STATE (see P5A)		D. Date February 1995		
	Ident. Code	FY94 Unit Cost	Qty Total Cost	FY95 Unit Cost	Qty Total Cost	FY96 Unit Cost	Qty Total Cost	FY97 Unit Cost	Qty Total Cost
1. Vehicle	A	33	10	33	101	34	58	35	198
2. Federal Excise Tax (FET)			333	3366	1981	6933			
3. Engineering Support -In House -Contractor Spt			44	444	263	915			
4. Quality Assurance (TACOM)			181	177	179	149			
5. Testing (TECOM)			100	100	90	64			
6. System Technical Support (STS)			77	77	78	81			
			250	75	78		75		
			577	577	510		425		
TOTAL PROGRAM COST		156	1562	48	4816	55	3179	44	8642

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							A. DATE February 1995			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles			C. P-1 ITEM NOMENCLATURE Semitrailer, Van, Cargo, Supply, 12T, 4 whl, M129A2C (D04800)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 94	To Be Selected	C/FP	TACOM	Mar, 95	Aug, 95	10	33,328	Yes	No	
FY 95	To Be Selected	C/FP	TACOM	Mar, 95	Dec, 95	101	33,328	Yes	No	
FY 96	To Be Selected	Option	TACOM	Jan, 96	Aug, 96	58	34,161	Yes	No	
FY 97	To Be Selected	Option	TACOM	Jan, 97	Aug, 97	198	35,015	Yes	No	
D. REMARKS Five year Requirements Contract starting in FY95.										

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Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995	
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles		P-1 Item Nomenclature: Hi Mob Multi-Purp Whld Veh (HMMWV) (MYP) (D15400)							
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		5,836	1,325	546	226				
COST (MILLIONS)		\$246.8	\$117.7	\$57.7	\$52.7	\$0.4	\$0.4		

DESCRIPTION - The HMMWV is a lightweight, high performance, four-wheel drive, air transportable and air droppable, high mobility tactical family of wheeled vehicles. The vehicle has a diesel engine, automatic transmission and payloads of 2500/3660/4400 lbs. for HMMWV Group I, Group II and Heavy HMMWV (M1097) respectively. The Block I, or A1 models of the HMMWV began fielding in March 1994. The A1 models have improved seating, upgraded electronics and M1097 components across the family. The A2 models will have an updated EPA compliant engine and a 4-speed automatic transmission. The Scout HMMWV is a specially modified Armament carrier to accommodate the Scout mission role. The Up-armored HMMWV (M1114) provides greatly improved ballistic protection versus the basic HMMWV and will be used by the Military Police, Scouts and as an interim system until the Armored Gun System (AGS) vehicles are fielded. The chassis will be used for other programs where the M1097 has insufficient capacity.

JUSTIFICATION - The HMMWV continued production is required to support the expanding mission roles of the HMMWV and the threat that is encountered. In addition to the continued roles of Personnel Carrier, TOW Anti-tank Carrier, Armament Carrier, Shelter Carrier and Ambulance, new missions and threats have generated the need to increase payload and protection levels for the HMMWV. The M1114 improves the protection levels to that of light tracked vehicles. The increase to 10,000 lbs. gross vehicle weight (GVW) of the M1097 and A2s, is being followed with an increased GVW to accommodate the M1114 Scout mission requirements and the M1113 for other shelter systems. The M1114 will be used to replace the M2/M3 Bradley vehicles in the Scout mission roles and the M1113 is to support numerous fielded and emerging systems such as NLOS-R, Avenger, and Standard Integrated Command Post System. In addition, the M1114 will be used until the AGS is fielded.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 1-Tactical and Support Vehicles		B. WEAPON MODEL: HI Mob Multi-Purp Whld Veh (HMMWV) (MYP) (D15400)		C. MANUFACTURER NAME: AM General PLANT CITY/STATE: Mishawaka, IN (see P5A)		D. Date February 1995		
WEAPON SYSTEM COST ELEMENTS		Ident. Code	94 Unit Cost	Qty* Total Cost	95 Unit Cost	Qty Total Cost	96 Unit Cost	Qty* Total Cost	97 Unit Cost	Qty Total Cost
1. Vehicle		A		5,772 208,719 (4,410) (141,023) (3)		1,325 95,835		400 49,055		226 44,226
Util Cargo M998 (D15404)			32		(636) (38,351) (309)	60				
Util Armt M1025-Scout (D15407)			39		(118)	62				
Util Armt M1026-Scout (D15407)					(152) (81)				(196) (226)	
Up-Armor XM1109/XM1114 (D15402)			176		(26,709) (14,941)	184		190	(37,236) (44,226)	196
Hvy Var M1097 (D15402)			34		(1,207) (40,869)			58	(204) (11,819)	
Exp Cap Veh XM1113 (D15402)					78					1,786
2. Kits				9,022		11,511		1,210		664
3. Engineering Changes				2,893		1,438		736		62
4. Testing Contractor Government				3,531 (3,531)		1,150 (1,150)		60 (60)		(62)
5. Documentation				0		210				
6. Engineering Support Government In-house-Engineering Government In-house-Quality Assurance Service Support Contracts				12,998 (1,234) (400) (11,364)		4,768 (1,824) (426) (2,518)		5,072 (2,298) (439) (2,335)		4,589 (2,392) (452) (1,745)

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 1-Tactical and Support Vehicles	B. WEAPON MODEL: HI Mob Multi-Purp Whld Veh (HMMWV) (MYP) (D15400)		C. MANUFACTURER NAME: AM General PLANT CITY/STATE: Mishawaka, IN (see P5A)				D. Date February 1995	
WEAPON SYSTEM COST ELEMENTS	Ident. Code	94 Unit Cost	Qty Total Cost	95 Unit Cost	Qty Total Cost	96 Unit Cost	Qty Total Cost	97 Unit Cost	Qty Total Cost
7. User Special Tools			100		104		107		110
8. Government Furnished Equipment			200		200		206		212
9. Fielding			7,861		1,832		600		339
10. Project Management Admin			1,440		625		644		663
TOTAL PROGRAM COST			246,764		117,673		57,690		52,651
*P-1 quantity not updated; additional vehicles procured/model mix change after database lock.									

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles					C. P-1 ITEM NOMENCLATURE Hi Mob Multi-Purp Whld Veh (HMMWV) (MYP) (D15400)					
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY94	AM General Mishawaka, IN	Option	TACOM	Dec 94	Jun 95	57	\$31,772	Yes	No	
FY95	AM General	SS/Other*	TACOM	Dec 94	Jun 95	1,201	\$71,756	Yes	No	
FY95	AM General	SS/Other*	TACOM	Jun 95	Sep 95	124	\$77,868	Yes	No	
FY96	AM General	SS/Other*	TACOM	Nov 95	Feb 96	400	\$122,638	Yes	No	
FY97	AM General	SS/Other*	TACOM	Nov 96	Feb 97	226	\$195,690	Yes	No	
D. REMARKS										
* Method of procurement will be via a Requirements Contract. Unit price increase due to model mix, lower production rate, and improved engine/transmission.										

Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET	DATE February 1995
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100

JUSTIFICATION - The FMTV is required to fill the 2-1/2 ton truck (LMTV) and 5 ton truck (MTV) requirements, reduce significant operating and support costs, resolve operational deficiencies and operate throughout the theater as multi-purpose transportation vehicles used by combat, combat support, and combat service support units. The system is designed to be rapidly deployable worldwide and operate on primary and secondary roads, trails, and cross-country terrain. Vehicle operates in all climatic conditions.

WEAPON SYSTEM COS ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDG		B. WEAPON MODEL:		C. MANUFACTURER NAME:		D. Date	
		ACTIVITY: Other Procurement Army 1-Tactical and Support Vehicles		Family of Medium Tactical Veh (MY D15500)		Stewart & Stevenson PLANT CITY/STATE: Sealy, TX (see P5A)		February 1995	
WEAPON SYSTEM COST ELEMENTS		Ident. Code	94 Unit Cost	Qty Total Cost	95 Unit Cost	Qty Total Cost	96 Unit Cost	Qty Total Cost	97 Unit Cost
1. Vehicles:		A		219 24,699		3,461 340,144 (2,558)			
LMTV Trucks (D13500)					93	(237,105) (903)			
MTV Trucks (D13500)			113	(219) (24,699)	114	(103,039)			
2. Kits						1,892			
3. Federal Retail Excise Tax						3,547			
4. Engineering Changes				1,561		24,680			
5. Testing Contractor Government				0		2,550 (2,550)			
6. Documentation						3,661			
7. Engineering Support Government In-House--Engineering Government In-House--Quality Ass Service Support Contracts				1,899 (819) (1,080)		5,657 (1,145) (267) (4,245)			
8. Fielding				121		2,687		7,488	
9. System Project Management				705		1,217		1,231	
10. Cancellation Fee								30,973	
TOTAL PROGRAM COST				28,985		386,035		39,692	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles			C. P-1 ITEM NOMENCLATURE Family of Medium Tactical Veh (MYP) (D15500)							
COST ELEME FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVER	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY93	Stewart & Stevenson, Inc. Sealy, TX	CM-5(3a)	TACOM	Sep 93	Jul 94	1,288	\$110,196	Yes	No	
FY93	Stewart & Stevenson, Inc.	CM-5(3b)	TACOM	Feb 95	Sep 95	703	\$93,390	Yes	No	
FY94	Stewart & Stevenson, Inc.	CM-5(3b)	TACOM	Feb 95	Sep 95	70	\$108,571	Yes	No	
FY94	Stewart & Stevenson, Inc.	CM-5(4a)	TACOM	Feb 95	Dec 95	149	\$114,003	Yes	No	
FY95	Stewart & Stevenson, Inc.	CM-5(4a)	TACOM	Feb 95	Dec 95	651	\$98,279	Yes	No	
FY95	Stewart & Stevenson, Inc.	CM-5(4b)	TACOM	Sep 95	Feb 96	2,810	\$98,279	Yes	No	
D. REMARKS										

PRODUCTION SCHEDULE (EXHIBIT P-21)

DATE February 1995

REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092

APPROPRIATION/BUDGET ACTIVITY
OPA/ACTIVITY 1 - TACTICAL AND SUPPORT VEHICLES

P-1 ITEM NOMENCLATURE
FAMILY OF MEDIUM TACTICAL VEHICLES (FMTV) (D15500)

FACILITY NO	U S	M R	V	PROGRAM QUANTITY												ACCEP PRIOR TO 1 OCT	BALANCE DUE AS OF 1 OCT	FISCAL YEAR 94												FISCAL YEAR 95												IL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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				FY 91	FY 92	FY 93	FY 94	FY 95	JAN	FEB	MAR	APR	MAY	JUN	JUL			AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL		AUG	SEP	OCT	NOV	DEC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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PRODUCTION SCHEDULE (EXHIBIT P-21)

IP-1 ITEM NOMENCLATURE
FAMILY OF MEDIUM TACTICAL VEHICLES (FMTV) (D15500)

ACTIVITY
OPA/ACTIVITY 1 - TACTICAL AND SUPPORT VEHICLES

[illegible]

FACTL NO	MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER O DA	PRODUCTION LEAD TIME			
		MINIMUM SUST	1-8-5	MAXIMUM		ADMIN	PROD	TOTAL	
1	STEWART AND STEVENSON, SEALY, TX		250	350	700	12	13	14	27
							2	6	8

6

Page No 5 of 5 Pages

P—LINE NO.

REMARKS

Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles		P-1 Item Nomenclature: Heavy Equipment Transporter Sys (DV0012)					
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY							FY01
COST (MILLIONS)				\$89.4			
<p>DESCRIPTION - This system consists of the M1000 Heavy Equipment Transporter (HET) Semitrailer and the M1070 Truck Tractor. Together, they form a system whose primary mission is to transport main battle tanks and heavy equipment. This system also has the capability to self load and unload.</p> <p>JUSTIFICATION - Program allows Army to procure additional HET quantities toward Army Acquisition Objective (AAO). The HET continues to provide the only tactical transportation and evacuation support for the main battle tank and other heavy tracked combat vehicles. Funds were added as a result of lessons learned from Operation Desert Storm.</p>							

Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles		P-1 Item Nomenclature: Heavy Equipment Transporter Sys (DV0012) Tractor					
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY				202			
COST (MILLIONS)				\$52.0			
<p>DESCRIPTION - The M1070 is a commercial, diesel-powered truck tractor having a minimum Gross Vehicle Weight (GVW) rating of 85,000 lbs. which, in combination with the M1000 Semitrailer, forms a system whose primary mission is to transport heavy equipment.</p> <p>JUSTIFICATION - Program allows Army to procure additional HET quantities toward Army Acquisition Objective (AAO). The HET continues to provide the only tactical transportation and evacuation support for the main battle tank and other heavy tracked combat vehicles. Funds were added as a result of lessons learned from Operation Desert Storm.</p>							

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 1-Tactical and Support Vehicles		B. WEAPON MODEL: Heavy Equipment Transporter Sys (DV0012)--Tractor		C. MANUFACTURER NAME: Oshkosh Truck Corp. PLANT CITY/STATE: Oshkosh, WI (see P5A)		D. Date February 1995	
WEAPON SYSTEM COST ELEMENTS		Ident. Code	94 Unit Cost	95 Unit Cost	96 Unit Cost	97 Unit Cost	Qty Total Cost	Qty Total Cost	
1. Vehicle		A					202	44,129	
2. Federal Retail Excise Tax							218	5,295	
3. Engineering Changes								662	
4. Testing Contractor Government								1,518	
5. Engineering Support Gov't In-house--Engineering Gov't In-house--Quality Assurance								(1,518)	
6. Documentation								318 (180) (138)	
								105	
TOTAL PROGRAM COST								52,027	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles				C. P-1 ITEM NOMENCLATURE Heavy Equipment Transporter Sys (DV0012)--Tractor							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY93	Oshkosh Truck Corp. Oshkosh, WI	Option	TACOM	Nov 93	May 94	110	\$174,200	Yes	No		
FY97	Oshkosh Truck Corp.	SS/FP	TACOM	Jan 97	Jul 98	202	\$218,460	Yes	No		
D. REMARKS											

REQUIREMENTS CONTROL SYMBOL
DD--COMP (AR) 1092

DATE February 1995

PRODUCTION SCHEDULE (EXHIBIT P-21)

P-1 ITEM NOMENCLATURE
M1070, TRUCK TRACTOR, 6X6 (DV0012)

OBJECT ACTIVITY
OPA/ACTIVITY 1 - TACTICAL AND SUPPORT VEHICLES

M1070, TRUCK TRACTOR, 8X8 (DV0012)

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[illegible][illegible]

PRODUCTION LEAD TIME			
	ADMIN LEAD TIME		TOTAL
	PRIOR 1 OCT	AFTER 1 OCT	PRODUCTION AFTER 1 OCT
INITIAL	0	3	19
REORDER	0	3	12
			22
			15

P-1 LINE NO. 7

Page No. 5 of 10 Pages

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Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles	P-1 Item Nomenclature: Heavy Equipment Transporter Sys (DV0012) Trailer							
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY				202				
COST (MILLIONS)				\$37.4				

DESCRIPTION - The M1000 Heavy Equipment Transporter (HET) is a mobile rigid platform semitrailer, capable of transporting a minimum of 70 tons. The primary mission of M1000 HET is to haul the M1A1 Main Battle Tank. This system also has the capability to self load and unload.

JUSTIFICATION - Program allows Army to procure additional HET quantities toward Army Acquisition Objective (AAO). The HET continues to provide the only tactical transportation and evacuation support for the main battle tank and other heavy tracked combat vehicles. Funds were added as a result of lessons learned from Operation Desert Storm.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 1-Tactical and Support Vehicles		B. WEAPON MODEL: Heavy Equipment Transporter Sys (DV0012)--Trailer		C. MANUFACTURER NAME: Southwest Mobile Systems PLANT CITY/STATE: St. Louis, MO (see P5A)		D. Date February 1995	
WEAPON SYSTEM COST ELEMENTS		Ident. Code	94 Unit Cost	95 Unit Cost	96 Unit Cost	97 Unit Cost	98 Unit Cost	99 Unit Cost	100 Unit Cost
1. Vehicle		A							
2. Engineering Changes									
3. Testing Contractor Government									
4. Engineering Support Gov't In-house--Engineering Gov't In-house--Quality Assurance									
5. Documentation									
TOTAL PROGRAM COST									

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles				C. P-1 ITEM NOMENCLATURE Heavy Equipment Transporter Sys (DV0012)--Trailer						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY93	Southwest Mobile Sys St. Louis, MO	Option	TACOM	Oct 93	Feb 96	110	\$146,345	Yes	No	
FY97	Southwest Mobile Sys	SS/FP	TACOM	Jan 97	Jul 98	202	\$172,892	Yes	No	
D. REMARKS										

P40

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles		P-1 Item Nomenclature: Family of Heavy Tactical Vehicles (MYP) (DA0500)						
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY *	932							
COST (MILLIONS)	\$402.7	\$16.3	\$0.6	\$80.6	\$0.6	\$0.5		
<p>DESCRIPTION - The Palletized Load System (PLS) consists of a 16.5 ton payload prime mover (10 x 10) with an integral load-handling system, which provides self-loading and unloading capability; a 16.5 ton payload trailer; and demountable cargo beds (flatracks). The PLS performs line haul, local haul, unit resupply and other missions in the tactical environment to support modernized and highly mobile combat units. The PLS Truck is equipped with a central tire inflation system (CTIS) which significantly improves off-road mobility. An intermodal flatrack with features which enhance transportability and stacking has been designed and is now in the early phases of production.</p> <p>JUSTIFICATION - The PLS is the primary component of the Maneuver Oriented Ammunition Distribution System (MOADS) primarily in support of the field artillery, however, the PLS will move all ammunition within the Corps area. The PLS will allow interoperability with the comparable British, German and French systems, through the use of a common flatrack. FY 97 funding will buy approximately 6700 additional flatracks toward a requirement of 50,848. This will reduce the flatrack shortfall to 29,100 flatracks and fill requirements to support one major regional contingency (MRC). A container handling device (CHD) will also be procured in FY 97 and fielded to transportation units, ammunition units and forward support battalions providing the capability to pick up and transport 20 foot International Standards for Organization (ISO) containers without using a flatrack.</p> <p>*QUANTITY FOR TRUCKS ONLY; FY95 FUNDS FOR TRAILERS ONLY; FY97 FUNDS FOR FLATRACKS/CONTAINER HANDLING DEVICE ONLY.</p>								

P-1 SHOPPING LIST ITEM NO.: 8

PAGE NO.: 1 of 5

Exhibit P-40

WEAPON SYSTEM COS ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDG ACTIVITY: Other Procurement Army 1-Tactical and Support Vehicles		B. WEAPON MODEL: Family of Heavy Tactical Vehicles (M DA0500)		C. MANUFACTURER NAME: Oshkosh Truck Corp. PLANT CITY/STATE: Oshkosh, WI (see P5A)			D. Date February 1995			
WEAPON SYSTEM COST ELEMENTS				Ident. Code	94 Unit Cost	Qty Total Cost	95 Unit Cost	Qty Total Cost	96 Unit Cost	Qty Total Cost	97 Unit Cost	Qty Total Cost
1. Vehicle				A		932 378,652 (932)		0 6,907		0 67,000		
Trucks (D16500)						255 (237,620)						
Trailers (D08900)						38 (16,587)	40 (171) (6,907)					(5,700) (67,000)
Flatracks (D16100)						13 (124,445)						8,905
2. Container Handling Device (CHD)						1,290		631		670		
3. Engineering Changes						12,133		262		398		
4. Testing Contractor Government						0		(262)		(398)		
5. Engineering Support Gov't In-house--Engineering Gov't In-house--Quality Assurance Service Support Contracts						2,310 (737) (380) (1,193)		4,330 (1,051) (472) (2,807)		1,384 (989) (395)		
6. Project Management Admin						814		729	596	551		
7. Fielding						7,509		3,482		1,707		
TOTAL PROGRAM COST						402,708		16,341	596	80,615		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							A. DATE February 1995			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles			C. P-1 ITEM NOMENCLATURE Family of Heavy Tactical Vehicles (MYP) (DA0500)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY94	Oshkosh Truck Corp. Oshkosh, WI	CM-5 (5)	TACOM	Mar 94	Oct 94	932	\$254,957	Yes	No	
D. REMARKS										

REQUIREMENTS CONTROL SYMBOL
DD--COMP (AR) 1092

COMPA/ACTIVITY 1 - TACTICAL AND SUPPORT VEHICLES

IP-1 ITEM NOMENCLATURE

E
PALLETIZED LOAD SYSTEM (PLS) (DA0500)

REMARKS	
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Reports Control		BUDGET ITEM JUSTIFICATION SHEET						DATE
Symbol DD-COMP (AR)								February 1995
1092								
Appropriation/Budget Activity		P-1 Item Nomenclature:						
OPA/ACT 1 - Tactical and Support Vehicles		Armored Security Vehicles (Combat Spt) TAC (D02800)						
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY				21	25	23	18	
COST (MILLIONS)				\$9.6	\$10.4	\$9.7	\$7.7	

DESCRIPTION - The Armored Security Vehicle (ASV) is a turreted, lightly armored all-wheel drive vehicle that provides ballistic protection, overhead protection and protection against landmines. The ASV will accept the MK-19 grenade machine gun, the M-2 .50 caliber machine gun and the M-60 7.62mm machine gun. The ASV will be transportable by C-130 and larger aircraft, rail and marine transport modes. The ASV will be capable of carrying four persons. The vehicle will have a diesel engine, automatic transmission, central tire inflation system and a payload of 3,360 lbs with all kits installed. The ASV may be used as the platform for the Mobile Ordnance Disrupter System (MODS).

JUSTIFICATION - The ASV will be used by the Military Police (MP) to perform missions across the entire operational continuum. The MP units are under-protected for their doctrinal combat support mission. The ASV concept was approved under the Armored Family of Vehicles Operational and Organizational concept approved in Jun 1987. The MP's will conduct Airland Battle Operation missions in a warfighting environment or they will perform force protection and stabilization operations in a short of war contingency environment. The baseline ASV may be used in support of the MODS program for the U.S. Air Force.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 1-Tactical and Support Vehicles		B. WEAPON MODEL: Armored Security Vehicles (Combat Spt) (D02800)		C. MANUFACTURER NAME: To Be Selected PLANT CITY/STATE: (see P5A)		D. Date February 1995	
	Ident. Code	94 Unit Cost	Qty Total Cost	95 Unit Cost	Qty Total Cost	96 Unit Cost	97 Unit Cost	Qty* Total Cost
WEAPON SYSTEM COST ELEMENTS								
1. Vehicle	B						326	24 7,823
2. Engineering Changes								235
3. Testing Contractor Government								696 (151) (545)
4. Documentation								340
5. Engineering Support Government In-house--Engineering Government In-house--Quality Assurance Service Support Contracts								515 (193) (174) (148)
TOTAL PROGRAM COST								9,609
*P-1 quantity not updated/new validated cost estimate after database lock.								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE February 1995	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles				C. P-1 ITEM NOMENCLATURE Armored Security Vehicles (Combat Support) (D02800)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY97	To Be Selected	CM-4(1)	TACOM	Sep 97	Feb 97	24	\$325,958	Yes	No		
D. REMARKS											

PRODUCTION SCHEDULE (EXHIBIT P-21)															DATE		February 1995		REQUIREMENTS CONTROL SYMBOL		DD-COMP (AR) 1092																							
APPROPRIATION/BUDGET ACTIVITY															IP-1 ITEM NOMENCLATURE															ARMORED SECURITY VEHICLE (ASV) (D32800)														
OPACTIVITY 1 - TACTICAL AND SUPPORT VEHICLES															97															98														
PROGRAM QUANTITY															CALENDAR YEAR															CALENDAR YEAR														
FISCAL YEAR															FISCAL YEAR															FISCAL YEAR														
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP															OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP															OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP														
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP															OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP															OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP														
T E A A 24															24															24														
TOTAL MONTHLY PRODUCTION															0															24														
TOTAL MONTHLY PRODUCTION															0															24														

PRODUCTION LEAD TIME			
ADMIN	PROD	TOTAL	
INITIAL	11	6	9
REORDER	1	6	7

IFACI	MANUFACTURER'S NAME & LOCATION	TO BE SELECTED	PRODUCTION RATES		MONTHS TO REACH MAX AFTER D DAY		P-LINE NO.
			MINIMUM 1-8-8	SUBT	MAXIMUM	REACH MAX	

REMARKS

PRODUCTION SCHEDULE (EXHIBIT P-21)										DATE		February 1995		REQUIREMENTS CONTROL SYMBOL DD-COMP (AR) 1092	
APPROPRIATION/BUDGET ACTIVITY OPA/ACTIVITY 1 - TACTICAL AND SUPPORT VEHICLES										IP-1 ITEM NOMENCLATURE ARMORED SECURITY VEHICLE (ASV) (D02800)		FISCAL YEAR		CALENDAR YEAR	
										99		00			
										98		99		00	
										OCT		NOV		DEC	
										JAN		FEB		MAR	
										APR		MAY		JUN	
										JUL		AUG		SEP	
										OCT		NOV		DEC	
										JAN		FEB		MAR	
										APR		MAY		JUN	
										JUL		AUG		SEP	
										OCT		NOV		DEC	
										JAN		FEB		MAR	
										APR		MAY		JUN	
										JUL		AUG		SEP	
										OCT		NOV		DEC	
										JAN		FEB		MAR	
										APR		MAY		JUN	
										JUL		AUG		SEP	
										OCT		NOV		DEC	
										JAN		FEB		MAR	
										APR		MAY		JUN	
										JUL		AUG		SEP	
										OCT		NOV		DEC	
										JAN		FEB		MAR	
										APR		MAY		JUN	
										JUL		AUG		SEP	
										OCT		NOV		DEC	
										JAN		FEB		MAR	
										APR		MAY		JUN	
										JUL		AUG		SEP	
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Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
Appropriation/Budget Activity		P-1 Item Nomenclature:					
OPA/ACT 1 - Tactical and Support Vehicles		Medium Truck Extended Svc Pgm (ESP) (Prev SLEP) (DV0008)					
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY	241						FY01
COST (MILLIONS)	\$17.6						

DESCRIPTION - The Medium Truck Extended Service Program (ESP) is a remanufacturing program for M44A2 series 2 1/2 ton cargo truck in CONUS. ESP provides a vehicle that meets current emission standards and includes numerous safety improvements. ESP vehicles will be equipped with a Central Tire Inflation System (CTIS) for enhanced mobility, automatic transmission and power steering.

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 1-Tactical and Support Vehicles		B. WEAPON MODEL: Medium Truck Extended Svc Pgm (ESP) (DV0008)		C. MANUFACTURER NAME: AM General PLANT CITY/STATE: South Bend, IN (see P5A)		D. Date February 1995	
WEAPON SYSTEM COST ELEMENTS		Ident. Code	94 Unit Cost	Qty Total Cost	95 Unit Cost	Qty Total Cost	96 Unit Cost	Qty Total Cost	97 Unit Cost
1. Vehicle		A	58	241 13,888					
2. Engineering Changes				1,033					
3. Testing				1,196					
4. Documentation				1,121					
5. Engineering Support Government In-house-Engineering Government In-house-Quality Assurance				377 (103) (274)					
TOTAL PROGRAM COST				17,615					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)							A. DATE		
B. APPROPRIATION/BUDGET ACTIVITY							IF YES, WHEN AVAIL		
Other Procurement, Army 1 - Tactical and Support Vehicles									
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPECS REV REQ'D
				Medium Truck Extended Svc Pgm (DV0008)					
FY94	AM General South Bend, IN	CM-5 (2)	TACOM	Mar 94	Jan 95	155	\$56,225	Yes	No
FY94	AM General	CM-5 (3)	TACOM	Aug 94	Jul 95	86	\$60,153	Yes	No
D. REMARKS									
First program year was funded by the National Guard for 997 vehicles.									

REQUIREMENTS CONTROL SYMBOL
DD-COMP (AR) 1092

DATE February 1995

REQUIREMENTS CON
DD-COMP (AR) 1092

OPA/ACTIVITY 1 - TACTICAL AND SUPPORT VEHICLES

IP-1 ITEM NOMENCLATURE

EXTENDED SERVICE PROGRAM M44A2 2 1/2 T TRUCK (DV0008)

[illegible]

FACIL NO	MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER D DAY
		MINIMUM 80BT	185	MAXIMUM	
1	A M GENERAL, SOUTH BEND, IN	25	100	300	6

PRODUCTION LEAD TIME			
	ADMIN	PROD	TOTAL
INITIAL	11	12	23
REORDER	1	9	10

Page No. 4 of 6 Pages

REMARKS

IRT scheduled 10/94 - 6/95
IRT Report due 9/95
FUE, 1/96

Page No. 4 of 6 Pages

P-LINE NO. 10

REQUIREMENTS CONTROL SYMBOL
DD-COMP (AR) 1092

DATE February 1995

DATE _____

REQUIREMENTS CONTROL SYMBOL
DD-COMP (AR) 1092

IP-1 ITEM NOMENCLATURE

EXTENDED SERVICE PROGRAM M44A2 2 1/2 T TRUCK (DN0008)

[illegible]

FACIL NO	MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES			MONTHS TO REACH MAX AFTER 0 DAY
		MINIMUM BUST	185	MAXIMUM	
1	AM GENERAL, SOUTH BEND, IN	25	100	300	6

PRODUCTION LEAD TIME			
	ADMIN	PROD	TOTAL
INITIAL	11	12	23
REORDER	1	9	10

Page No. 6 of 6 Pages

P-LINE NO. 10

REMARKS

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Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET							DATE February 1995
Appropriation/Budget Activity		P-1 Item Nomenclature:						
OPA/ACT 1 - Tactical and Support Vehicles		Modification of In Svc Equip (DA0924)						
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (MILLIONS)	\$25.1	\$11.7	\$2.8	\$2.8	\$3.8	\$3.9		

DESCRIPTION - Funds are required to support procurement of hardware and application for modifications or product improvements (primarily safety related) such as fire detection, seatbelt procurement and application, and fuel venting on fielded tactical vehicles.

JUSTIFICATION - Program supports a safety justified modification to the Hi-Mobility Multipurposed Wheeled Vehicle (HMMWV) that will increase survivability of soldiers in the field and improve readiness.

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Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles	P-1 Item Nomenclature: Modification of In Svc Equip (DA0925) - Hardware						
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY							FY01
COST (MILLIONS)	\$20.2	\$5.4	\$0.3	\$1.4	\$0.7	\$1.7	

DESCRIPTION - Funds are required to support procurement of hardware for modifications or product improvements (primarily safety related) such as fire detection, seatbelt procurement and application, and fuel venting on fielded tactical vehicles. FY94 Appropriation Language provided funds to procure the HMMWV Up-Armored system. Application to be accomplished on production line by HMMWV contractor.

JUSTIFICATION - Program provides hardware for a safety related modification that will increase survivability for soldiers in the field and improve readiness.

MC NO.	DESCRIPTION	SAFETY?	FY94	FY95	FY96	FY97
1-92-06-4428	SUSV Fire Detection/Exting	Yes	2.180			
1-88-06-4206	M939 5T Fuel Tank Vent	Yes				
TBD	HMMWV Up-Armored	No	14.000			
1-92-06-4401	HMMWV 3 PT Seatbelts	Yes	4.005	5.407	0.336	1.430
	TOTAL		20.185	5.407	0.336	1.430

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Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET						DATE February 1995
Appropriation/Budget Activity OPA/ACT 1 - Tactical and Support Vehicles	P-1 Item Nomenclature: Modification of In Svc Equip (DA0926) - Application						
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY							FY01
COST (MILLIONS)	\$4.9	\$6.3	\$2.5	\$1.4	\$3.2	\$2.2	

DESCRIPTION - Funds are required to support procurement of hardware for modifications or product improvements (primarily safety related) such as fire detection, seatbelt application, and fuel venting on fielded tactical vehicles.

JUSTIFICATION - Program supports application of two safety related modifications that will increase survivability of soldiers in the field and improve readiness.

MC NO.	DESCRIPTION	SAFETY?	FY94	FY95	FY96	FY97
1-92-06-4428	SUSV Fire Detection/Exting	Yes		0.336	0.118	
1-88-06-4206	M939 5T Fuel Tank Vent	Yes	1.300			
1-92-06-4401	HMMWV 3 PT Seatbelts	Yes	3.583	5.989	2.348	1.376
TOTAL			4.883	6.325	2.466	1.376

P-1 SHOPPING LIST ITEM NO.: 11

PAGE NO.: 3 of 10

Exhibit P-40

REPORTS CONTROL SYMBOL		UNCLASSIFIED										DATE: FEBRUARY 1995												
DD-COMP(AR)1092		INDIVIDUAL MODIFICATIONS																						
MODIFICATION TITLE:		Small Unit Support Vehicle (SUSV) Fire Detection and Extinguisher System																						
MODELS OF SYSTEMS AFFECTED:		SUSV 5&6 Cylinder Fleet																						
DESCRIPTION/JUSTIFICATION:		There have been several incidents of engine compartment fires in SUSVs. This Change procures a fire detection and extinguishing system consisting of an audio warning and non-halon extinguishing system.																						
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:																								
FINANCIAL PLAN(\$ in Millions)		PY	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	TOTAL	
RD&E																								
PROCUREMENT																								
Kit Quantity			800		2.2																		800	2.2
Installation Kits																								
Equipment (Nonrecurring)																								
Installation Total Costs																								
Installation Unit Cost(Non-add)																								
PY Equipment																								
FY94 Equipment																								
FY95 Equipment																								
FY96 Equipment																								
FY97 Equipment																								
FY98 Equipment																								
FY99 Equipment																								
FY00 Equipment																								
To Complete Equipment																								
Total Installation Costs			800		2.2																		800	2.6
TOTAL PROCUREMENT COST																								
METHOD OF IMPLEMENTATION:		Unit Installed										ADMINISTRATIVE LEADTIME: 4 Months		PRODUCTION LEADTIME: 4 Months										
CONTRACT DATES:		FY94 JUL 95										FY95		FY96										
DELIVERY DATES:		FY94 OCT 95										FY95		FY96										
INSTALLATION SCHEDULE:		PY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					TOTAL	
INPUT																								
OUTPUT																								
		P.1 SHOPPING LIST										PAGE 4 OF 10		INDIVIDUAL MODIFICATION EXHIBIT P-3a										
		ITEM 11																						

P3a

INDIVIDUAL MODIFICATION

DATE: February 1995

MODIFICATION TITLE: M939 5T FUEL TANK VENT
 MODELS OF SYSTEM AFFECTED: M939/M939A1
 DESCRIPTION/JUSTIFICATION: Prevents fuel tank from venting into the vehicle air intake. Will vent to atmosphere preventing the possibility of uncontrolled engine run-on and engine destruction.
 DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ IN MILLIONS)

	PYs	FY94	FY95	FY96	FY97	FY98	FY99	FY00	To Comp	TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT										
Installation Kits	16422	1.7								1.7
Installation Kit Nonrecurring										0.0
Installation of Hardware										
PY Equipment(16422)		16422	1.3							1.3
FY94 Equipment										0.0
FY95 Equipment										0.0
FY96 Equipment										0.0
FY97 Equipment										0.0
FY98 Equipment										0.0
FY99 Equipment										0.0
FY00 Equipment										0.0
To Complete Equipment										0.0
Total Installation Costs	0	0.0	16422	1.3	0	0.0	0	0.0	0	0.0
TOTAL PROCUREMENT COST	1.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0

METHOD OF IMPLEMENTATION: Unit with contractor assistance

CONTRACT DATES: FY94: JUN 94

DELIVERY DATES: FY94: DEC 94

FY95:

FY95:

ADMINISTRATIVE LEADTIME: 6 Month

PRODUCTION LEADTIME: 6 Months

FY96:

FY96:

	PYs	FY94	FY95	FY96	FY97	FY98	FY99	FY00	TOTAL
	1	2	3	4	1	2	3	4	1
INSTALLATION SCHEDULE:									
INPUT	5474	10938							16422
OUTPUT									16422

P-1 SHOPPING LIST ITEM NO.: 11

PAGE NO.: 5 of 10

Exhibit P-3a Individual Modification

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: HMMWV Up-Armor Program

MODELS OF SYSTEM AFFECTED: M1097 to XM1109

DESCRIPTION/JUSTIFICATION: Provides additional armor/ballistic protection on the HHV. Program established via Congressional increase per FY94 Appropriation Language. HMMWV contractor to conduct implementation.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ IN MILLIONS)

	FYs		FY94		FY95		FY96		FY97		FY98		FY99		FY00		To Comp		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT																				
Installation Kits			104	14.0															104	14.0
Installation Kit Nonrecurring																		0	0.0	
Installation of Hardware																				
PY Equipment																		0	0.0	
FY94 Equipment																		0	0.0	
FY95 Equipment																		0	0.0	
FY96 Equipment																		0	0.0	
FY97 Equipment																		0	0.0	
FY98 Equipment																		0	0.0	
FY99 Equipment																		0	0.0	
FY00 Equipment																		0	0.0	
To Complete Equipment	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Installation Costs			14.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0			
TOTAL PROCUREMENT COST		0.0		14.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		14.0

METHOD OF IMPLEMENTATION: Contractor

ADMINISTRATIVE LEADTIME: 1 Month

PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY94: Aug 94

FY95:

DELIVERY DATES: FY94: Feb 95

FY96:

FYs		FY94		FY95		FY96		FY97		FY98		FY99		TOTAL	
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
INSTALLATION SCHEDULE:															
INPUT															
OUTPUT															

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: HMMWV 3PT Seatbelt
 MODELS OF SYSTEM AFFECTED: All HMMWV models
 DESCRIPTION/JUSTIFICATION: Provides three point seatbelts for the front and rear seats on all basic armor and non-armor HMMWV models. The three point seatbelt is a safer and more effective restraint system than the two point seatbelt. Total requirement is for 76,925 kits plus 771 template kits.
 DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ IN MILLIONS)

Pys		FY94		FY95		FY96		FY97		FY98		FY99		FY00		To Comp		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
1293	0.1	20623	4.0	20670	5.4	1780	0.3	7584	1.4	3480	0.7	6870	1.7			14625	4.3	76925	18.0
Installation Kits																		0	0.0
Installation Kit Nonrecurring																			
Installation of Hardware																			
PY Equipment (1293 kits)		1293	0.2															1293	0.2
FY94 Equipment (20,623 kits)		10613	3.3	10010	4.1													20623	7.5
FY95 Equipment (20,670 kits)				10020	1.8	7852	2.3	2798	0.9									20670	5.1
FY96 Equipment (1,780 kits)								1780	0.3									1780	0.3
FY97 Equipment (7,584 kits)								22	0.1	7562	2.5							7584	2.6
FY98 Equipment (3,480 kits)										3098	0.7	382	0.2					3480	0.8
FY99 Equipment (6,870 kits)												6870	2.0					6870	2.0
FY00 Equipment																		0	0.0
To Complete Equipment																14625	4.4	14625	4.4
Total Installation Costs		0	0.0	11906	3.6	20030	6.0	7852	2.3	4600	1.3	10660	3.2	7252	2.2	0	0.0	14625	23.0
TOTAL PROCUREMENT COST		0.1	7.6	11.4	2.7	2.7	2.7	2.7	2.7	3.8	3.8	3.9	3.9	0.0	0.0	8.7	8.7	76925	40.8

METHOD OF IMPLEMENTATION: Contract Team

CONTRACT DATES: FY94: Nov 94

DELIVERY DATES: FY94: May 95

ADMINISTRATIVE LEADTIME: 2 Months

FY95: May 95

FY95: Nov 95

PRODUCTION LEADTIME: 6 Months

FY97: Nov 96

FY97: May 97

INSTALLATION SCHEDULE: PYS		FY95				FY96				FY97				FY98				FY99				FY00	TOTAL		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1			
INPUT						2500	5266	7766	7766	7767	7767	1389	1389	1389	1389	1389	1389	2665	2665	2665	2665	2418	2417	2417	62300
OUTPUT						2500	5266	7766	7766	7767	7767	1389	1389	1389	1389	1389	1389	2665	2665	2665	2665	2418	2417	2417	62300

MODIFICATION INSTALLATION SUMMARY

(TOA, Dollars in Millions)

<u>System/Modification</u>	<u>FY94</u>	<u>FY95</u>	<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>	<u>TOTAL</u>
Hi-Mobility Multipurposed Wheeled Vehicle (HMMWV) Modifications									
HMMWV 3 Pt Seatbelts	3.583	5.989	2.348	1.376	3.188	2.169			0 18.653
Total for HMMWV	3.583	5.989	2.348	1.376	3.188	2.169			18.653

MODIFICATION INSTALLATION SUMMARY

February 1985

(TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TOTAL
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M939 5 Ton Modifications

M939 5T Fuel Tank Vent	1.300								1.300
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MODIFICATION INSTALLATION SUMMARY

(TOA, Dollars in Millions)

<u>System/Modification</u>	<u>FY94</u>	<u>FY95</u>	<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>	<u>TOTAL</u>
Small Unit Support Vehicle (SUSV) Modifications									
SUSV Fire Detection/Extinguisher		0.336	0.118						0.454

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE: February 1995	
Appropriation/Budget Activity		P-1 Item Nomenclature: Items Less Than \$2.0M (Tac Veh) (DL5110)							
		FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY									
COST (MILLIONS)	1.4		0.4	0.2	0.2	0.2	0.2	1.8	1.0
<p>DESCRIPTION: This equipment is required to procure/assemble various tool and shop sets essential to the maintenance of the Army's Worldwide Tactical Wheeled Vehicle fleet.</p> <p>JUSTIFICATION: Requirements include initial fieldings, Equipment Readiness Code (ERC) A shortages and interchange requirements. While these items neither move, shoot, or fly, they are vital to maintenance programs that will significantly reduce equipment downtime and maintain the wheeled vehicle fleet at a required level of readiness.</p>									

WEAPON SYSTEM COS ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDG ACTIVITY: Other Procurement Items Less than \$2.0M Army 1-Tactical and Support Vehicles		B. WEAPON MODEL: Items Less than \$2.0M (Tac Veh)		C. MANUFACTURER/Location Rock Island Arsenal Rock Island, IL		D. Date February 1995				
WEAPON SYSTEM COST ELEMENTS				Ident. Code	94 Unit Cost	Qty Total Cost	95 Unit Cost	Qty Total Cost	96 Unit Cost	Qty Total Cost	97 Unit Cost	Qty Total Cost
1. Shop Equip, Battery Servicing Shelter Mtd (G310)				A	24	5 120				34	2 69	
2. Shop Equip, Mechanical Maint Shelter Mtd (G328)				A	124	1 124	114	114	118	1 118	121	1 121
3. Shop Equip, Auto Maint & Repair, FM Basic (G349)				A	79	5 393	76	76			80	1 80
4. Shop Equip, Auto Maint & Repair, FM Supp 1 (G350)				A	35	6 208						
5. Shop Equip, Auto Maint & Repair, FM Supp 2 (G351)				A	96	5 480						
6. Shop Equip, Fuel & Elec Sys Eng, FM (G648)				A	18	2 35			13	1 13		
7. Tool Set, Paint, Field Maint PCS Set (G656)				A			10	10				
8. Shop Equip, Eng Fuel Elect Sys Rpr, Shelter Mtd (G316)				A	14	1 14						
9. Semitrailer, FB BB/Cont Trailer M871A2 (D01500)				A			18	13 240				
10. Shop Equip, Auto Maint & Rpr, Org Comm#2 (G390)				A	20	1 20						
TOTAL						1,394		440			200	201

ITEMS LESS THAN \$2 MILLION DOLLARS										DATE February 1995
P-1 Item Nomenclature: Items Less Than \$2.0M (TAC VEH) (DL5110)										
P-1 Item Nomenclature: Items Less Than \$2.0M (TAC VEH) (DL5110)										
ITEM NO.	FY96 BUDGET/APPORTIONMENT NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS INCLUDES BY QTY	UNIT COST	QUANTIT REQUIRE	(THOUSAN TOTAL DOLLARS	CONTRAC TYPE	CONTRAC METHOD	AWARD DATE
1	Shop Equip, Battery Servicing, Shelter MTD G310	221	47	49	34469	2	69	FFP	RIA	JAN 96
2	Shop Equip, Mechanical Maint, Shelter MTD G328	34	18	19	117847	1	118	FFP	RIA	JAN 96
3	Shop Equip, Fuel & Electric Sys Eng, FM G648	345	310	308	12510	1	13	FFP	RIA	JAN 96
	TOTAL						200			

Reports Control Symbol
DD-COMP (AR) 1092
Appropriation/Budget Activity
OTHER PROCUREMENT: ARMY 1
Tactical and Support Vehicles

ITEMS LESS THAN \$2 MILLION DOLLARS
P-1 Item Nomenclature:
Items Less Than \$2.0M (TAC VEH) (DL5110)

DATE
February 1995

P-1 SHOPPING LIST ITEM NO. 12

PAGE NO.: 3 OF 4

Exhibit P-3B

Reports Control Symbol DD-COMP (AR) 1092				ITEMS LESS THAN \$2 MILLION DOLLARS					DATE February 1995	
Appropriation/Budget Activity OTHER PROCUREMENT: ARMY 1 Tactical and Support Vehicles				P-1 Item Nomenclature: Items Less Than \$2.0M (TAC VEH) (DL5110)						
ITEM NO.	FY97 BUDGET/APPORTIONMENT	AAO	ASSETS ON-HAND	ASSETS INCLUDES BY FDP BY QTY	UNIT COST	QUANTIT REQUIRE	(THOUSAN TOTAL DOLLARS	CONTRAC TYPE	CONTRAC METHOD	AWARD DATE
1	Shop Equip, Mechanical Maint, Shelter MTD G328	34	19	20	121383	1	121	FFP	RIA	JAN 97
2	Shop Equip, Auto Maint & Repair, FM Basic G349	574	436	432	80099	1	80	FFP	RIA	JAN 97
	TOTAL						201			

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE: February 1995	
Appropriation/Budget Activity Other Procurement, Army 1 - Tactical and Support Vehicles			P-1 Item Nomenclature: Passenger Carrying Vehicles (D23000)						
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	
QUANTITY	16		41						
COST (MILLIONS)	0.3		1.0						
<p>DESCRIPTION: Vehicles are of standard commercial design, intended to provide transportation for Army and civilian personnel, dependent school children and emergency/non-emergency patient transport. The vehicles include sedans, station wagons, ambulances and buses.</p> <p>JUSTIFICATION: The Passenger Carrying Vehicles are used for training support, quality of life, installation services, school transportation, investigation, field intelligence and security. All budgeted procurements of non-tactical vehicles are urgently required to satisfy priority requirements, fill existing worldwide shortages and replace overage/overmileage vehicles. The fielding of new vehicles will alleviate excessive downtime, reduce maintenance and repair costs and maximize mission capabilities of users.</p>									

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. Other Procurement, Army 1- Tactical and Support Vehicles				B. WEAPON MODEL Passenger Carrying Vehicles (D23000)				C. MANUFACTURER NAME PLANT CITY/STATE LOCATION (See P-5A)				D. DATE: February 1995	
	Ident. Code	FY84		Total Cost	FY85	FY86		Total Cost	FY87	FY97		Total Cost		
		Unit Cost	Qty		Unit Cost	Unit Cost	Qty		Unit Cost	Unit Cost	Qty			
D20100 Automobile, Sedan, Light		14	14	201		15	34	507						
D20501 Truck, Ambulance EMS/Rescue		44	2	87										
D21007 Bus, 28-44 Passenger						70	7	487						
TOTAL			16	288			41	984						

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		ANALYSIS OF REQUIREMENTS FOR COMMERCIAL MOTOR VEHICLES					DATE: February 1965									
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles		P-1 ITEM NOMENCLATURE: Passenger Carrying Vehicles										(D630000)				
ITEM DESCRIPTION	ASSETS ON HAND	ASSETS DUE IN FROM FY64 & PRIOR FUNDING	ASSETS DUE IN FROM FY65 FUNDING	DISPO- SALS THRU FY65 FUNDING	ON HAND OR FUNDED THRU FY65 FUNDING	ELIGIBLE FOR REPLACE- MENT	PLANNED FY66 PROCUREMENT					ASSETS ON HAND OR FUNDED THRU FY66 FUNDING	CURRENT AUTHOR- IZED ALLOW- ANCES			
							REPLACE- MENT	AUG- MEN- TATION	TOTAL	UNIT COST	TOTAL COST			DISPOSAL THRU FY66 FUNDING		
D20000 Auto, Ambulance/Hearse	3	1	1	1	3	576	34		34	0.015	0.507	19	3	3		
D20100 Auto, Sedan, Light	1,874	17	160	4	1,731	22						2	1,748	2,259		
D20300 Auto, Station Wagon	56		4	2	52	78							80	81		
D20400 Truck, Ambulance	163	1	2	2	162	78							162	197		
D20501 Truck, Ambulance EMS/Rescue 4X	97	2	2	45	97	24	7		7	0.070	0.487	1	97	117		
D21007 Bus, 28-44 Passenger	590	14			549	348							555	555		
-- TOTALS --	2,773	35	214		2,594	1,048	41		41		0.994	22	2,613	3,212		
P-1 SHOPPING LIST ITEM NO. : 13															UNCLASSIFIED	EXHIBIT P-14

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles			C. P-1 ITEM NOMENCLATURE Automobile, Sedan, Light (D20100)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY94	GSA, WASHINGTON, DC GSA, WASHINGTON, DC VOLKSWAGEN, GERMANY TOYOTA, JAPAN	MIPR/FP MIPR/FP C/FP C/FP	GSA GSA OFF-SHORE OFF-SHORE	APR 94 APR 94 AUG 94 SEP 94	OCT 94 OCT 94 OCT 94 NOV 94	2 1 7 4	13,000 15,000 14,248 15,081				
FY96	TO BE SELECTED	C/FP	OFF-SHORE	JUL 96	SEP 96	34	14,911	YES	NO		
D. REMARKS											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1985	
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							IF YES, WHEN AVAILABLE	
Other Procurement, Army 1 - Tactical and Support Vehicles			Truck, Ambulance, EMS/Rescue (D20501)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D		
FY84	GSA, WASHINGTON, DC GSA, WASHINGTON, DC	MIPR/FP MIPR/FP	GSA GSA	APR 94 SEP 94	OCT 94 MAR 95	1 1	37,210 50,000				
D. REMARKS											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles				C. P-1 ITEM NOMENCLATURE Bus, 28-44 Passenger (D21007)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY93	GSA, WASHINGTON, DC	MIPR/FP	GSA	FEB 93	JUN 93	19	66,090				
FY96	GSA, WASHINGTON, DC	MIPR/FP	GSA	MAR 96	SEP 96	7	69,571	YES	NO		
D. REMARKS											

Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET						DATE: February 1995	
Appropriation/Budget Activity Other Procurement, Army 1 - Tactical and Support Vehicles		P-1 Item Nomenclature: General Purpose Vehicles (DV0013)							
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	
QUANTITY									
COST (MILLIONS)	2.7		1.0						
<p>DESCRIPTION: Vehicles are of standard commercial design and are intended primarily for general administrative use in transporting personnel and cargo. Vehicles are procurable from regular production lines and include light to heavy trucks such as carryalls, panel trucks, stake trucks, trailers, semitrailers and fuel-servicing tankers. The kit-ready light armored vehicles are also within this category.</p> <p>JUSTIFICATION: All budgeted procurements of General Purpose Vehicles are urgently required to satisfy high priority requirements, fill existing worldwide shortages and replace overage/overmileage vehicles. The fuel-servicing aircraft tankers are of priority, necessary to keeping Army airfields open and operable CONUS and OCONUS. New units are urgently needed to replace aging tankers which are environmental and safety hazards due to fuel leakage on the airfields. The fielding of new vehicles will alleviate excessive downtime, reduce maintenance and repair costs and provide greater operational safety.</p>									

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. Other Procurement, Army 1- Tactical and Support Vehicles				B. WEAPON MODEL General Purpose Vehicles (DV0013)				C. MANUFACTURER NAME PLANT CITY/STATE LOCATION (See P-5A)				D. DATE: February 1995			
	Ident. Code	FY94		Total Cost	FY95	FY96		Total Cost	FY97	FY98		Total Cost	FY99	FY00		Total Cost
		Unit Cost	Qty		Unit Cost	Unit Cost	Qty		Unit Cost	Unit Cost	Qty		Unit Cost	Unit Cost	Qty	
D25500 Truck, Cargo		13	10	133						22	8	176				
D25700 Truck, Cargo		17	1	17												
D26300 Truck, Carryall		5	296	1,356						15	12	180				
DA9000 Items Less Than \$2.0M			26	1,202							7	637				
TOTAL			333	2,708							27	993				

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. Other Procurement, Army 1- Tactical and Support Vehicles				B. WEAPON MODEL Items Less Than \$2.0M (DA9000)			C. MANUFACTURER NAME PLANT CITY/STATE LOCATION (See P-5A)			D. DATE: February 1995	
	Ident. Code	FY94 Unit Cost	Qty	Total Cost	FY95 Unit Cost	Qty	Total Cost	FY96 Unit Cost	Qty	Total Cost	FY97 Unit Cost	Qty
WEAPON SYSTEM COST ELEMENTS												
D22000 Kit-Ready Vehicles		26	2	52								
D28000 Truck, Tank, Fuel Servicing		145	3	434				145	3	434		
D28500 Truck, Tractor		38	2	76				39	2	77		
D28600 Truck, Equipment Transporter		70	1	70								
D28700 Truck, Tractor		52	5	259								
D28900 Truck, Utility		19	3	58								
D29100 Truck, Van		45	1	45								
D29300 Truck, Wrecker		61	1	61				63	2	126		
D30000 Semitrailer, Low Bed		21	3	64								
D30100 Semitrailer, Refrigerated		38	1	38								
D31900 Trailer, Low Bed		5	3	16								
D55100 Scooter, Motor		11	1	11								
Engineering Support- Service Support Contract				18								
TOTAL			26	1,202					7	637		

REPORTS CONTROL SYMBOL DD-COMP (AR) 1082		ANALYSIS OF REQUIREMENTS FOR COMMERCIAL MOTOR VEHICLES					DATE: February 1985							
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles		P-1 ITEM NOMENCLATURE: General Purpose Vehicles					(DV0013)							
ITEM DESCRIPTION	ASSETS ON HAND	ASSETS DUE IN FROM FY84 & PRIOR FUNDING	ASSETS DUE IN FROM FY85 FUNDING	DISPO- SALS THRU FY85 FUNDING	ON HAND OR FUNDED THRU FY85 FUNDING	ELIGIBLE FOR REPLACE- MENT	PLANNED FY86 PROCUREMENT					ASSETS ON HAND OR FUNDED THRU FY86 FUNDING	CURRENT AUTHOR- IZED ALLOW- ANCES	
							REPLACE- MENT	AUG- MEN- TATION	TOTAL	UNIT COST	TOTAL COST			DISPOSAL THRU FY86 FUNDING
D25500 Truck, Cargo	1,825	26		515	1,336	818	8		8	0.022	0.178	4	1,340	1,804
D25700 Truck, Cargo	265	2		13	254	87						1	253	318
D28300 Truck, Carryall	3,827	408		172	3,861	2,450	12		12	0.015	0.180	18	3,857	3,898
DA9000 Items Less Than \$2.0M	10,043	195		1,260	8,978	5,823	7		7		0.837	40	8,945	11,770
-- TOTALS --	15,760	629		1,960	14,429	8,978	27		27		0.993	61	14,395	17,760
P-1 SHOPPING LIST ITEM NO.: 14														
UNCLASSIFIED														
PAGE NO. 4 OF 7														
EXHIBIT P-14														

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1985	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles			C. P-1 ITEM NOMENCLATURE Truck, Cargo (D25500)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY84	TOYOTA, JAPAN NISSAN, JAPAN NISSAN, JAPAN	C/FP C/FP C/FP	OFF-SHORE OFF-SHORE OFF-SHORE	SEP 94 SEP 94 SEP 94	DEC 94 DEC 94 DEC 94	4 2 4	12,500 14,537 13,474				
FY86	GSA, WASHINGTON, DC	MIPR/FP	GSA	FEB 96	AUG 96	8	22,000	YES	NO		
D. REMARKS											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles			C. P-1 ITEM NOMENCLATURE Truck, Cargo (D25700)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY94	GSA, WASHINGTON, DC	MIPR/FP	GSA	APR 94	SEP 94	1	17,137				
D. REMARKS											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE								
Other Procurement, Army 1 - Tactical and Support Vehicles			Truck, Carryall (D26300)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY94	GSA, WASHINGTON, DC GSA, WASHINGTON, DC OPEL, GERMANY BRAMALL FORD, ENGLAND VOLKSWAGEN, GERMANY ARO, ROMANIA TATA STATE, INDIA TO BE SELECTED GERMANY-BERLIN FLEET (USED VEHICLES)	MIPR/FP MIPR/FP C/FP C/FP C/FP C/FP C/FP C/FP C/FP	GSA GSA OFF-SHORE OFF-SHORE OFF-SHORE OFF-SHORE OFF-SHORE OFF-SHORE OFF-SHORE	MAR 94 APR 94 MAY 94 MAY 94 JUN 94 SEP 94 SEP 94 MAR 95 MAR 95	SEP 94 OCT 94 JUL 94 MAY 94 AUG 94 DEC 94 DEC 94 JUN 95 APR 95	17 3 1 1 5 1 1 4 263	16,706 21,544 29,712 26,523 26,375 6,045 11,330 15,450 2,813				
FY96	TO BE SELECTED	C/FP	OFF-SHORE	JUL 96	SEP 96	12	15,000	YES	NO		
D. REMARKS											

Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET						DATE: February 1985
Appropriation/Budget Activity Other Procurement, Army 1 - Tactical and Support Vehicles			P-1 Item Nomenclature: Special Purpose Vehicles (DV0014)				
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY							
COST (MILLIONS)	4.3		1.0				
<p>DESCRIPTION: Vehicles are commercially designed for specialized use in the direct support of facility engineering, maintenance and similar activities within an organization. This includes maintenance trucks, dump trucks, refuse trucks and other vehicles with mounted equipment. Special Purpose Vehicles are managed under the age or mileage criteria.</p> <p>JUSTIFICATION: The Special Purpose Vehicles are not being converted to General Services Administration (GSA) lease, therefore support to the health and welfare missions of the field must continue to be provided by procurement. Refuse collection trucks are of high priority for hauling away rubbish from CONUS and OCONUS installations. The current fleet is inadequate, and the condition of some of the aging refuse trucks poses a threat to the environment. Also of environmental concern are the trucks required both for transporting hazardous materials from installations and for rescue operations. The service platform trucks are required to continue the engineering support mission necessary to the operation of posts, camps and stations. All budgeted procurements of non-tactical vehicles are urgently required to satisfy high priority requirements, fill existing worldwide shortages and replace overage/overmileage/substitute vehicles. The fielding of new vehicles will provide greater operational safety, alleviate excessive downtime, reduce maintenance and repair costs and maximize the mission capabilities of users.</p>							

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. Other Procurement, Army 1- Tactical and Support Vehicles			B. WEAPON MODEL Special Purpose Vehicles (DV0014)			C. MANUFACTURER NAME PLANT CITY/STATE LOCATION (See P-5A)			D. DATE: February 1995	
	Ident. Code	FY94 Unit Cost	Qty	Total Cost	FY95 Unit Cost	Qty	Total Cost	FY96 Unit Cost	Qty	FY97 Unit Cost	Total Cost
D19900 Truck, Maintenance		14	6	82							
D26500 Truck, Dump		7	33	246							
D35200 Truck, Refuse Collection		132	2	263			135		3	404	
D45000 Truck, Service Platform		76	3	228			72		5	360	
D45800 Truck, Maintenance		13	8	102							
DA8500 Items Less Than \$2.0M			27	3,329					2	229	
TOTAL			79	4,250					10	993	

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. Other Procurement, Army 1- Tactical and Support Vehicles				B. WEAPON MODEL Items Less Than \$2.0M (DA8500)				C. MANUFACTURER NAME PLANT CITY/STATE LOCATION (See P-5A)				D. DATE: February 1995	
WEAPON SYSTEM COST ELEMENTS		Ident. Code	FY94 Unit Cost	Qty	Total Cost	FY95 Unit Cost	Qty	Total Cost	FY96 Unit Cost	Qty	Total Cost	FY97 Unit Cost	Qty	Total Cost	
D20700 Truck, Rescue			137	19	2,595				115	2	229				
D35100 Truck, Refuse Collection			72	2	144										
D36000 Truck, Tank, Sewage			136	2	271										
D45900 Truck, Maintenance			22	1	22										
D46200 Truck, Maintenance			99	3	297										
TOTAL				27	3,329					2	229				

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		ANALYSIS OF REQUIREMENTS FOR COMMERCIAL MOTOR VEHICLES					DATE: February 1985							
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles		P-1 ITEM NOMENCLATURE: Special Purpose Vehicles										(DW0014)		
ITEM DESCRIPTION	ASSETS ON HAND	ASSETS DUE IN FROM FY94 & PRIOR FUNDING	ASSETS DUE IN FROM FY95 FUNDING	DISPO- SALS THRU FY95 FUNDING	ON HAND OR FUNDED THRU FY95 FUNDING	ELIGIBLE FOR REPLACE- MENT	PLANNED FY96 PROCUREMENT					ASSETS ON HAND OR FUNDED THRU FY96 FUNDING	CURRENT AUTHOR- IZED ALLOW- ANCES	
							REPLACE- MENT	AUG- MEN- TATION	TOTAL	UNIT COST	TOTAL COST			DISPOSAL THRU FY96 FUNDING
D19900 Truck, Maintenance	2,118	21	2,008	130	2,008	1,524						36	1,973	2,901
D26500 Truck, Dump	554	40	581	13	581	126						3	578	594
D35200 Truck, Refuse Collection	149	18	151	16	151	85	3		3	0.135	0.404	8	146	162
D45000 Truck, Service Platform	178	22	177	23	177	79	5		5	0.072	0.360	8	174	177
D45900 Truck, Maintenance	1,532	20	1,425	127	1,425	131						25	1,400	1,763
DA6500 Items Less Than \$2.0M	1,018	70	970	118	970	489	2		2		0.228	11	991	1,328
- TOTALS -	5,549	191	5,313	427	5,313	2,444	10		10		0.993	91	5,232	6,745

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EXHIBIT P-14

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles			C. P-1 ITEM NOMENCLATURE Truck, Maintenance (D19900)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC8 AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY94	GSA, WASHINGTON, DC	MIPR/FP	GSA	APR 94	OCT 94	6	13,611				
D. REMARKS											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles			C. P-1 ITEM NOMENCLATURE Truck, Dump (D28500)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY94	GSA, WASHINGTON, DC GERMANY-BERLIN FLEET (USED VEHICLES)	MIPR/FP C/FP	GSA OFF-SHORE	MAR 94 MAR 95	SEP 94 APR 95	1 32	25,600 6,881	YES	NO		
D. REMARKS											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles				C. P-1 ITEM NOMENCLATURE Truck, Refuse Collection (D35200)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY94	GSA, WASHINGTON, DC	MIPR/FP	GSA	AUG 94	FEB 95	2	131,537				
FY96	GSA, WASHINGTON, DC	MIPR/FP	GSA	MAR 96	SEP 96	3	134,666	YES	NO		
D. REMARKS											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army 1 - Tactical and Support Vehicles			C. P-1 ITEM NOMENCLATURE Truck, Service Platform (D45000)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY94	GSA, WASHINGTON, DC	MIPR/FP	GSA	APR 94	OCT 94	1	92,602				
	GSA, WASHINGTON, DC	MIPR/FP	GSA	APR 94	OCT 94	1	60,364				
	GSA, WASHINGTON, DC	MIPR/FP	GSA	OCT 94	APR 95	1	75,000				
FY96	GSA, WASHINGTON, DC	MIPR/FP	GSA	MAR 96	SEP 96	5	72,000	YES	NO		
D. REMARKS											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE: February 1995	
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE								
Other Procurement, Army 1 - Tactical and Support Vehicles			Truck, Maintenance (D45600)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE	
FY94	VOLKSWAGEN, GERMANY	C/FP	OFF-SHORE	MAY 94	NOV 94	8	12,701				
D. REMARKS											

Reports Control		BUDGET ITEM JUSTIFICATION SHEET						DATE
Symbol DD-COMP (AR)								February 1995
1092								
Appropriation/Budget Activity		P-1 Item Nomenclature:						
OPA/ACT 1 - Tactical and Support Vehicles		System Fielding Support PEO (DA0070)						
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (MILLIONS)	\$2.1	\$5.4	\$4.2	\$1.4	\$2.0	\$2.0	\$1.3	

DESCRIPTION - Funds are required to support total package fielding, first destination transportation and new equipment training for PEO programs such as the Heavy Equipment Transporters, High Mobility Trailers, and the Medium Truck Extended Service Program.

JUSTIFICATION - Required to complete the acquisition cycle for numerous PEO, Tactical Wheeled Vehicles systems by providing necessary resources to ship vehicles to first destination and to fund hand-off/deprocessing teams to ensure complete, operable systems are provided to the soldiers in the field. Many of the systems are required to fill critical shortages, replace overaged vehicles, or provide new advanced technology. Also, funds new equipment training teams required to perform operator through general support maintenance training to support fielding of new systems.

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Reports Control Symbol DD-COMP (AR) 1092		BUDGET ITEM JUSTIFICATION SHEET					DATE February 1995
Appropriation/Budget Activity		P-1 Item Nomenclature:					
OPA/ACT 1 - Tactical and Support Vehicles		Project Management Support (DA0073)					
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY							FY01
COST (MILLIONS)	\$1.9	\$2.5	\$0.7	\$0.6	\$0.6	\$0.6	

DESCRIPTION - Funds personnel, travel, and related costs so that PM can plan, direct and control resources and associated projects including initial procurement technical data package development, initial production, product assurance and testing, distribution and logistics support.

JUSTIFICATION - PM's mission and functions will primarily be managing the procurement and fielding of the High Mobility Trailer, Armored Security Vehicle (ASV), Medium Truck Extended Serviced Program (ESP), and Heavy Equipment Transporter System (HETS). These vehicle systems are required to fill shortages, modernize fleets, and fulfill critical needs.

Reports Control Symbol DD-COMP (AR) 1092	BUDGET ITEM JUSTIFICATION SHEET										DATE: January 1995
Appropriation/Budget Activity Other Procurement, Army Activity 1, Tactical and Support Vehicles					P-1 Item Nomenclature: System Fielding Support (TACOM) (DA0071)						
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01			
QUANTITY											
COST (MILLIONS)	2.1	2.1	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
<p>DESCRIPTION: System Fielding Support costs consist of funding required for First Destination Transportation, Total Package Fielding, New Equipment Training and Interim Contractor Logistic Support for various tactical and support systems, including, but not limited to, cargo trailers, water tank trailers, dolly sets, semitrailers used to transport and dispense fuel, and general purpose vehicles. First Destination Transportation provides for the shipment of newly procured equipment and materiel from the acquisition of Initial Issue support equipment and deprocessing costs for the total package fieldings of tactical and support vehicles. New Equipment Training (NET) funding is required for the training of personnel in the operation/maintenance of various tactical and support vehicle systems.</p> <p>JUSTIFICATION: Funding is required to support Total Package Fielding (TPF) for tactical and support vehicles. The TPF requirement will support costs associated with requisitioning and receipt of initial supply items, package of end items for total package fielding and processing for hand off costs at a staging area prior to issue to a unit. Funds are also required to support the transportation of items from the contractor's plant to the point of first acceptance into the Army's inventory. New Equipment training provides instruction in operation and maintenance of tactical and support vehicle systems. It is essential that it be provided in the time frame required to guarantee that trained personnel are available concurrent with the issue of equipment.</p>											